PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference KAPRO PCT-05 International application No. PCT/IL 03/01123			s file reference	FOR FURTHER A		e Notification of Transmittal of International Iliminary Examination Report (Form PCT/IPEA/416)				
				International filing date 31.12.2003	(day/month/ye	Priority date (day/month/year) 31.12.2003				
		I Patent (6, G01 (or both national classification	and IPC					
	icant PRO II	NDUST	RIES LTD							
1.	This Auth	internat ority and	ional preliminary e d is transmitted to	xamination report has been the applicant according to	en prepared Article 36.	by this International Preliminary Examining				
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.									
	×	been a (see R	mended and are t ule 70.16 and Sec	he basis for this report and tion 607 of the Administra	d/or sheets c	e description, claims and/or drawings which have ontaining rectifications made before this Authority ons under the PCT).				
	These annexes consist of a total of 4 sheets.									
3.	This report contains indications relating to the following items:									
	I ⊠ Basis of the opinion									
	Н	□ F	Priority							
	111	M	Non-establishment	of opinion with regard to	noveity, inve	ntive step and industrial applicability				
	IV	⊠ L	Lack of unity of invention							
	V 🛮 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicable citations and explanations supporting such statement									
	VI		Certain documents	cited						
	- VII			he international applicatio						
	VIII		Certain observatio	ns on the international app	olication					
	•									
Date	e of sub	mission	of the demand		Date of con	npletion of this report				
20.	02.20	05			30.06.20	05				
		examini	ddress of the internance		Authorized	Officer graphs of Palenters . E.				
-	(III)	NL-2	280 HV Rijswijk - Pa		Passier,	M				
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016			:: 31 651 epo nl	Telephone	No. +31 70 340-4872					

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I. Basis of the report

International application No.

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	the and	receiving Office in rea are not annexed to t	sponse to an invitation under Article 14 are referred to in this report as "originally filed" his report since they do not contain amendments (Rules 70.16 and 70.17)):		
	Des	cription, Pages			
	1-5		as originally filed		
	Clai	ms, Numbers			
	1-21	l	received on 15.06.2005 with letter of 15.06.2005		
	Dra	wings, Sheets			
	1/5-	5/5	as originally filed		
2.	. With regard to the language, all the elements marked above were available or furnished to this Authority in th language in which the international application was filed, unless otherwise indicated under this item.				
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:		
☐ the language of a translation furnished for the purposes of			anslation furnished for the purposes of the international search (under Rule 23.1(b)).		
		the language of publ	lication of the international application (under Rule 48.3(b)).		
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).		
3.	With inte	n regard to any nucl e rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:		
		contained in the inte	rnational application in written form.		
		filed together with th	e international application in computer readable form.		
		furnished subsequer	ntly to this Authority in written form.		
	☐ furnished subsequently to this Authority in computer readable form.				
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.		
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.		
4.	The	amendments have r	esulted in the cancellation of:		
		the description,	pages:		
		the claims,	Nos.:		
		the drawings,	sheets:		

1. With regard to the elements of the international application (Replacement sheets which have been furnished to

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).					
		(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)					
6.	Add	itional observations, if necessary:					
111.	Nor	e-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1.	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
		the entire international application,					
☑ claims Nos. 10,21							
because:							
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
	\boxtimes	the description, claims or drawings (indicate particular elements below) or said claims Nos. 10,21 are so unclear that no meaningful opinion could be formed (specify):					
		see separate sheet					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
		no international search report has been established for the said claims Nos.					
2.	or a	neaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative tructions:					
		the written form has not been furnished or does not comply with the Standard.					
		the computer readable form has not been furnished or does not comply with the Standard.					
I۷	/. Lad	ck of unity of invention					
1.	. In r	esponse to the invitation to restrict or pay additional fees, the applicant has:					
		restricted the claims.					
		paid additional fees.					
		paid additional fees under protest.					
		neither restricted nor paid additional fees.					
2	. 🛛	This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.					
3	. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3						

is

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		complied with.							
	\boxtimes	not complied with for the following reasons:							
	see	ee separate sheet							
4.		onsequently, the following parts of the international application were the subject of international preliminary camination in establishing this report:							
	\boxtimes	all parts.							
		the parts relating to claims Nos							
٧.	Rea cita	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability tations and explanations supporting such statement							
1.	Sta	tement							
	Nov	velty (N)	Yes: No:	Claims Claims	1-9,11-20				
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-9,11-20				
	Indi	ustrial applicability (IA)	Yes: No:	Claims Claims	1-9,11-20				
2.	Cita	ations and explanations							

see separate sheet

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Re Item III

Claims 10 and 21 contain references to the description and the drawings. According to R.6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here. Therefore, no opinion can be formed in the sense of A.33(1) PCT for claims 10 and 21.

Re Item IV

- 1. The application does not meet the requirement of R.13.1 PCT, as it lacks unity for the following reasons:
- 2. The common concept linking together the independent claims 1 and 11 is a pocket level with a horizontal bubble vial and a generally prismatoidal body with a front surface, a rear surface and a quadrilateral surround having a leveling surface. This common concept is not inventive (see e.g. GB-2210167) and is thus not providing unity of invention as required by R.13.1 PCT.
- 3. The following inventions are recognised:

invention I: claims 1-6, 10 and 14-20;

invention II: claims 7-9, 11-13 and 21.

- 4. In addition to the common concept, the claims of **invention I** define a line level which is detachable from the body in order to reduce costs and increase packaging convenience
- 5. In addition to the common concept, the claims of **invention II** define a wheel rotatably supported by the body in order to accurately and easily measure inclination angles.
- 6. The additional features differ from each other to such an extent that they are not considered as same or corresponding special technical features in the sense of R.13.2 PCT. Consequently, a technical relationship involving one or more of the same or corresponding special technical features is absent so that the requisite unity of invention (R.13.1 PCT) does not exist.

Re Item V

1. Prior Art

The following documents are referred to:

D1: GB-A-2210167 **D2**: GB-A-2 348 953

D3: US-A-5 103 569 **D4**: DE 32 05 206 A

2. Technical Field

The invention relates to spirit levels in general and pocket levels in particular.

- 3. Novelty and Inventive Step (Article 33(1),(2),(3) PCT)
- The subject-matter of claims 1-9 and 11-20 is novel and inventive for the following reasons:
- 2. With respect to **invention I** document **D1** is considered to represent the closest state of the art. **D1** discloses a pocket level comprising a detachable line level with a horizontal bubble vial. The detachable line level is held in place in a recess in the main body by means of magnetic strips. Apart from the detachable line level, the pocket level of **D1** contains fixed horizontal and vertical bubble vials.
- 3. The subject-matter of **claim 1** differs from **D1** essentially in that the detachable line level is provided with a longitudinally extending groove in its bottom surface and that the recess has a longitudinally extending rib for snug insertion into said groove. In the configuration with the line level being attached to the main body this provides a rigid connection between the line level and the main body. Such a solid connection cannot be achieved by the magnetic strips of **D1** which, in the attached configuration, cannot completely prevent relative motion between the detachable line level and the main body. Thus, the detachable line level of **claim 1** has an exact and steady connection to the main body in such a manner that the line level's horizontal bubble vial doubles as the pocket level's horizontal bubble vial. This eliminates the need for an additional fixed horizontal bubble vial (as in **D1**).
- 4. Neither **D2** nor **D4** disclose or suggest such a rib-groove connection between a detachable line level and the main body. **D3** discloses a rib-groove connection, but this is a vertical connection between a detachable vertical vial (not a line vial) and the main body, so that the skilled person would not be prompted by **D3** to replace the horizontal magnetic strips of the line vial **D1** with a rib-groove connection.
- 5. With respect to **invention II** document **D2** is considered to represent the closest state of the art. **D2** discloses a pocket level comprising an open triangular body with a rotatably supported wheel rim surface with a bubble vial extending diametrically thereacross inside the body opening.

- 6. The subject-matter of **claim 11** differs from **D2** essentially in that the body has a quadrilateral surround having a throughgoing cutout enabling access to the wheel rim surface. This enables easier access to the rotatable bubble vial so that more accurate measurements can be obtained.
- 7. Neither **D1** nor **D3** disclose or suggest such an access to a wheel rim of a rotatable bubble vial. **D4** discloses wheel rim surfaces located in cutouts in a quadrilateral surround, but these wheel rim surfaces do not belong to rotatable bubble vials, so that the skilled person would not be prompted by **D4** to modify the device of **D2** into something defined by **claim 1**.
- 8. Claims 2-9 and 12-20 are dependent on claims 1 and 11, respectively, and as such also meet the requirements of the PCT with respect to novelty and inventive step.
- Industrial Applicability (Article 33(1),(4) PCT)
 The invention as claimed in claims 1-9 and 11-20 is industrially applicable.

Other

- 1. Claims 1 and 11 are unclear (A.6 PCT), because the expression "for indicating the inclination of a horizontally disposed surface with respect to the horizontal" is not understandable. It appears that such an inclination by definition always equals zero. It is thus unclear, from the wording of the claims, what the horizontal bubble vial intends to indicate. Similarly, it is unclear what is meant with "a leveling surface for placing on the horizontally disposed surface". Should it not be placed on an inclined surface?
- 2. The features of the claims are not provided with reference signs placed in parentheses (R.6.2(b) PCT).
- 3. The relevant background art disclosed in the document **D2** is not mentioned in the description, nor is this document identified therein (R.5.1(a)(ii) PCT).